Q.P. Code: 16CE132



SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech IV Year I Semester Supplementary Examinations July-2022 TRANSPORTATION ENGINEERING-II

TRANSPORTATION ENGINEERING-II				
(Civil Engineering)				
Time: 3 hours Max. Mar		: 60		
(Answer all Five Units $5 \times 12 = 60 \text{ Marks}$)				
	UNIT-I			
1	a	Explain step by step procedure of construction of Cement Concrete roads	6M	
	b	What do you understand by surface drainage system and what are the various surface	6M	
		drainage systems generally adopted. OR		
2	a	Define the term W.B.M and Give a brief explanation about the construction of W.B.M	6M	
_	•	roads with necessary specifications of materials used in it.	01,1	
	b	Write short notes on i) Control seepage flow ii) Capillary cut-off UNIT-II	6M	
3	a	Define the term rail. What are all its function, requirements.	6M	
	b	Explain in detail about various track fittings used in railway.	6M	
		OR		
4	a	What is the role of a sleeper in railway? Explain in detail about Cast-iron sleeper.	6M	
	b	Briefly explain about the Coning of wheels.	6 M	
_		UNIT-III	0.5	
5	a	What is a level crossing? Explain its types, inspection and maintenance of them.	6M	
	b	Explain any few types of fixed signals with a neat diagram. OR	6M	
6	a	Define a railway yard and discuss the different types of station yards with a brief	6M	
U	а	description.	UIVI	
	b	How the stations in Indian railways are classified according to operational	6M	
		characteristics and functional characteristic?		
		UNIT-IV		
7	a	What is an airport master plan? Briefly describe the steps in it formulation.	6M	
	b	Explain with neat sketches, about the Airport markings in detail.	6M	
8	0	OR Give a typical layout of a single runway airport showing all the components.	6M	
0	a b	Briefly explain the concept of Wind Rose diagram.	6M	
	D	UNIT-V	OIVI	
9	a	Briefly explain the historical development of water transportation in India.	6M	
	b	Distinguish between natural and artificial harbour. Draw a neat sketch of different types of Harbour.	6M	
	OR			
10	a	What considerations are taken in selecting the location of a harbour?	6 M	
	b	What is jetty? Explain open jetties, pilled jetties & cylinder jetties.	6M	
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